MC5728V PCI Express Mini Card

Technical Specifications

■ **Package**
Length: 51 mm
Width: 30 mm
Thickness: 4.5 mm
Weight: under 12 g

■ **Power**
3.0 ~ 3.6V power supply
Low talk current
Low stand-by current

■ **Antenna Connection**
50 Ohm compatible
U. FL RF connectors

■ **Frequency Bands**
Dual Band
    800MHz North American Cellular band
    1900MHz North American PCS band
Supports RX diversity in both 800MHz
    and 1900 MHz bands
GPS Band

■ **Host Interface**
52-Pin Edge Connector
Pinout supports PCI-Express Mini Card
Specification Rev 1.1
USB 2.0 (Full Speed)
Software configurable LED control

■ **Environmental**
Operating Temperature: -30 to 60° Celsius
Storage Temperature: -40 to 85° Celsius
RoHS compliant

■ **Operating System Support**
Windows® 7 Mobile Broadband,
Vista, XP, Windows CE, Mobile Linux

Compatible with
Windows® 7

■ **CDMA Standards**
IS-856-A (CDMA 1xEV-DO Revision A)
IS-856 (CDMA 1xEV-DO Rel 0)
IS-2000 (CDMA 1xRTT)
IS-95 A/B
IS-707-A Data
IS-637-A SMS
IS-683-A Service Provisioning
IS-683-B (partial)
Support for gpsOne™

■ **Data Services**
CDMA 1xEV-DO Revision A (IS-856-A)
    Forward link up to 3.1 Mbps
    Reverse link 1.8 Mbps
CDMA 1xEV-DO Rel 0 (IS-856)
    Forward link up to 2.4 Mbps
    Reverse link 153.6 Kbps
CDMA 1xRTT (IS-2000)
    Forward and reverse link speeds up to
    153.6Kbps

■ **Voice Services**
PCM & Analog Audio
IS-127 & IS 733-A Vocoders:
    13QCELP Vocoder
    EVRC Vocoder
    TTY/TTD

■ **For More Information**
North America and Asia
Tel: +1 604 232 1488
Fax: +1 604 231 1109

Europe
Tel: +44 20 8 622 3015
Fax: +44 20 8 622 3206

Email: sales@sierrawireless.com
Website: www.sierrawireless.com

SIERRA WIRELESS
MC5728V

PCI Express Mini Card Standard

Superior Integration Support

Fastest Time to Market

Sierra Wireless Empowered™

CONNECTING PEOPLE AND SYSTEMS TO MOBILE BROADBAND NETWORKS AROUND THE WORLD

Sierra Wireless is a recognized industry leader in developing wireless data products and enabling software. Sierra Wireless modems and software connect people all over the world with mobile broadband networks that keep them in touch, informed, and productive from wherever they need to be. The Company offers a diverse product portfolio addressing enterprise, consumer, original equipment manufacturer, machine-to-machine, and specialized vertical industry markets. Sierra Wireless also provides professional services to customers requiring expertise in wireless design, integration, and carrier certification.

For more information, please visit our website, www.sierrawireless.com.

SIERRA WIRELESS
HEART OF THE WIRELESS MACHINE®

■ Sierra Wireless Empowered™ Solutions

The powerful, cost effective MC5728V PCI Express Mini Card easily integrates into a variety of OEM devices to offer complete wireless data solutions over CDMA 1xEV-DO Revision A networks. Embedded right into computing devices for best possible performance, users will be 'Sierra Wireless Empowered™', and receive the same high-performance wireless wide area connectivity customers have come to expect from Sierra Wireless's award-winning products. From point-of-sale devices to ruggedized laptops, the MC5728V will turn hardware devices into powerful communications tools with both voice and data services.

■ PCI Express Minicard Standard

Based on the PCI Express Mini Card specification, the MC5728V offers premium functionality and performance. Sierra Wireless's flexible Command and Status (CnS) interface and key software applications support compelling data products. Extensive software, applications and tools, installation and activation wizards, IOTA clients, mobile IP support and essential hardware drivers simplify the certification and commercialization process. Measuring 51 x 30 x 4.5 mm and weighing in less than 12g, the MC5728V also complies with European Union directives on RoHS (Restrictions on Hazardous Substances).

The MC5728V is the latest addition to Sierra Wireless's portfolio of products for EV-DO networks, building on years of product development and refinement since the launch of the AirCard 580 EV-DO wireless wide area PC Card in 2003.

■ A Powerful 1xEV-DO Revision A Engine

The MC5728V PCI Express Mini Card is the latest in a series of successful Sierra Wireless CDMA products. Built using the latest CDMA 1xEV-DO technology, the MC5728V Mini Card is a complete 3G-enabled wireless solution, offering data, voice and SMS functionality.
• Theoretical peak downlink rate of 3.1 Mbps
• Theoretical peak uplink rate of 1.8 Mbps
• Uses QSC6085™ chipset from QUALCOMM
• Dual band and backwards compatible to IS-856 (CDMA 1xEV-DO-Rel 0), IS-2000 (1XRTT) and IS-95 networks
• Supports third generation (3G) digital cellular standards
• Supports GPS and RX Diversity.
• Supports latest Zero IF-based technology
• Enables rapid development of exceptional highspeed data products
• Comprehensive WHQL-certified USB software driver architecture

Standalone carrier certification and CDG infrastructure interoperability lab testing for the MC5728V will allow customers to efficiently integrate, certify and achieve the best time-to-market possible for their products.

■ Superior Support To Help With Integration Requirements

Sierra Wireless has extensive experience working with customers to develop and bring CDMA data solutions to market on a timely basis. Backed by a leading CDMA development and support team, customers can depend on Sierra Wireless to provide comprehensive software interface, development and integration services and a full suite of complementary software drivers to expedite product development cycles. Look at Sierra Wireless as an extension of your development team to efficiently design, develop, certify, and launch exceptional wireless data products.

Sierra Wireless is your only source for Sierra Wireless Empowered wireless data solutions.

■ A POWERFUL, COST EFFECTIVE 1XEV-DO REVISION A ENGINE THAT INTEGRATES EASILY INTO DEVICES

■ BEST IN CLASS TECHNICAL AND INTEGRATION SUPPORT AND PROFESSIONAL SERVICES ACCELERATE END PRODUCT TIME-TO-MARKET

■ COMPREHENSIVE SOFTWARE OFFERING, DEVELOPMENT KIT AND APPLICATIONS SIMPLIFIES DEVELOPMENT PROCESS

■ GPS SUPPORT PROVIDES ACCURATE POSITION AND VELOCITY TRACKING